# Master of Science in Bioengineering

**Track: Bioinformatics**

**Track Director:** Luke Huan, Ph.D. (lhuan@ittc.ku.edu)

## CORE

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPE 756</td>
<td>Intro to Bioengineering</td>
<td>3</td>
</tr>
<tr>
<td>BIOE 800</td>
<td>Bioengineering Colloquium (.5) (2 total hours req)</td>
<td></td>
</tr>
<tr>
<td>BIOE 801</td>
<td>Responsible Conduct of Research in Engineering</td>
<td>1</td>
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**MINIMUM HOURS REQUIRED FOR DEGREE:** 6

## DEPTH

**REQUIRED COURSE**

<table>
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<tr>
<th>Course</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>EECS 730</td>
<td>Introduction to Bioinformatics</td>
<td>3</td>
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**ELECTIVE COURSES (2 min)**

Choose appropriate courses with advisor from the following list:

- EECS 647 Introduction to Database Systems (3)
- EECS 649 Introduction to Artificial Intelligence (3)
- EECS 700 Special Topics in Bioinformatics (1-5)
- EECS 718 Graph Algorithms (3)
- EECS 737 Computational Genomics (3)
- EECS 738 Machine Learning (3)
- EECS 739 Scientific Parallel Computing (3)
- EECS 740 Image Processing (3)
- EECS 749 Knowledge Based Systems (3)
- EECS 767 Information Retrieval (3)
- EECS 775 Visualization (3)
- EECS 833 Neural Networks and Fuzzy Systems (3)
- EECS 835 Protein Bioinformatics (3)
- EECS 837 Data Mining (3)

or other EECS course approved by committee.

**MINIMUM HOURS REQUIRED FOR DEGREE:** 9

## BREADTH

Choose appropriate courses from the Master Breadth Course List.

**MINIMUM HOURS REQUIRED FOR DEGREE:** 9

## RESEARCH

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<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BIOE 899</td>
<td>Independent Investigation (Thesis)</td>
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*These hours are taken under your advisor/committee chair.*

**MINIMUM HOURS REQUIRED FOR DEGREE:** 6